

## CODING FORM FOR SRC INDEXING

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Submitting Organization		
INTL ISOCYANATE INST		
Contractor		
Document Title		
POLYMERIC METHYLENE DIPHENYL DIISOCYANATE (MDI) WITH COVER LETTER DATED 092289		
Chemical Category		
METHYLENE DIPHENYL DIISOCYANATE		

CONTAINS NO CBI

INTERNATIONAL ISOCYANATE INSTITUTE, INC.

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**8EHQ-0989-0741 FLWP**

September 22, 1989

**PDCN-88-880000049**

**89-890000252**

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Document Processing Center (TS-790)  
Office of Toxic Substances  
U.S. Environmental Protection Agency  
401 "M" Street, S.W.  
Washington, D.C. 20460

Attn: 8(e) Coordinator  
Polymeric MDI  
8EHQ-0788-0741 Initial

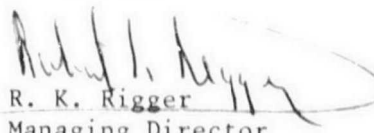
Dear Sir or Madam:

By letter dated July 14, 1989, the Environmental Protection Agency (EPA) requested certain physical/chemical property information on the polymeric MDI used in the two year study conducted at CIVO Institutes, Zeist, The Netherlands. The International Isocyanate Institute, Inc. (III) referred your questions to the supplier of the polymeric MDI. Attached is a copy of the information received from the supplier.

We trust this information adequately responds to your questions.

Please do not hesitate to contact me if you need any further information.

Sincerely,

  
R. K. Rigger  
Managing Director

RKR/sha  
Attachments

2  
Bayer AG  
PU-S/UP

Leverkusen, 01.09.1989

Subject: Polymeric Methylene Diphenyl Diisocyanate (MDI)  
SEHQ-0788-0741 Initial

Information on physical/chemical properties of polymeric MDI:

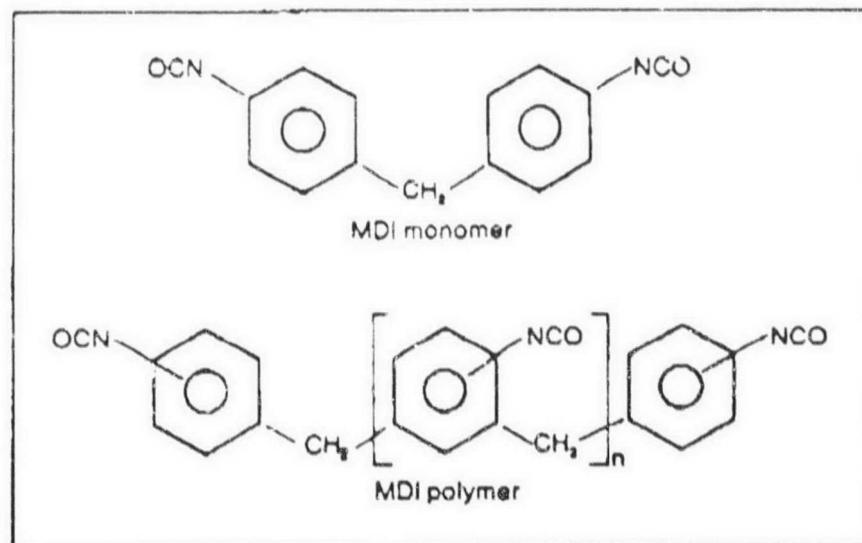
1. Solubility and dispersion characteristics

Polymeric MDI is soluble in most organic solvents like benzene, toluene, DMF, etc.

It is not soluble in water, alcohols, amines and other substances containing acidic hydrogens, since chemical reactions will occur.

2. Impurities found in MDI

2,4'-Isomer of Diphenylmethane-diisocyanate and homologue structures as shown below.



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## Concentration data on trace impurities:

chlorobenzenes	$\leq 0.015\%$
hydrolyzable chlorides	$\leq 0.3 \%$
phenyl isocyanate	$40 \pm 10$ ppm
2,4'-MDI	2 - 3%

3. Molecular weight distribution

Average molecular weight: approx. 400.

Content with mol. weight less than 500: approx. 70%

Content with mol. weight less than 1000: approx. 90%

### CERTIFICATE OF AUTHENTICITY

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